

Role of Nitric Oxide Produced by Lactobacilli in Relaxation of Intestinal Smooth Muscles

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Abstract

© 2016 Springer Science+Business Media New York Application of NO-producing lactobacilli to a rat jejunum segment induced muscle relaxation that was potentiated after activation of bacterial NO production with NO synthase substrate L-arginine. Similar changes in the intestinal contractile activity were observed in response to exogenous NO formed by sodium nitroprusside. These results indicated the involvement of NO synthesized by probiotic lactobacilli in the regulation of the intestinal motor function.

<http://dx.doi.org/10.1007/s10517-016-3166-z>
